

## UNITED STAT). DEPARTMENT OF COMMERCE Patent and Trajemark Office

#### NOTICE OF ALLOWANCE AND ISSUE FEE DUE

·18M2/1121

WILSON SONSINI GOSPRICH & ROSATI 650 PAGE MILL GEAR. PALO ACTO FOR 9401-1050

APP	LICATION NOT	-TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	. 6	DATE MAILED
	08/752)\$73 · 12/02/\$		HORLICK, K	1807	11/21/97
First Name Applicant	d WOUDENBERG.	TIMO	ITHY M.	·	

TITLE OF SYSTEM FOR REAL TIME DETECTION OF NUCLEIC ACID AMPLICATION PRODUCTS INVENTION (AS AMENDED)

ATT	Y'S DOCKET NO.	CLASS-SUBCLASS	BATÉH NO.	APF	LN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
. 1	16842-704	435-0	91.200	U41	UTILIT	LA NO	\$1320.00	02/23/98

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

#### **HOW TO RESPOND TO THIS NOTICE:**

- I. Review the SMALL ENTITY status shown above.

  If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
  - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
  - B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number.

  Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PATENT AND TRADEMARK OFFICE COPY





# UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT		ATTORNEY DOCKET NO.	
		·		EXAMINER	
			Γ		
			ART UNIT	PAPER NUMBER	
				27	
l		ł	DATE MAILED:		

Please find below a communication from the EXAMINER in charge of this application.

Commissioner of Patents

### SEE ATTACHED NOTICE OF ALLOWANCE

#### Notice of Allowability

Application No. **08/752,973** 

Applicant(s)

Woudenberg et al.

Examinor

Kenneth R. Horlick

Group Art Unit 1807



herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.
▼ This communication is responsive to the response filed 11/10/97
★ The allowed claim(s) is/are 13-23, 26-34, and 39-46 (final claims 1-28)     ★
The drawings filed on are acceptable.
☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been
received.
received in Application No. (Series Code/Serial Number)
received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
*Certified copies not received:
☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).
□ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.
because the originally filed drawings were declared by applicant to be informal.
including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. <u>22</u> .
including changes required by the proposed drawing correction filed on, which has been approved by the examiner.
including changes required by the attached Examiner's Amendment/Comment.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal lettter addressed to the Official Draftsperson.
☐ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.
Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.
Attachment(s)
☐ Notice of References Cited, PTO-892
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
☐ Notice of Informal Patent Application, PTO-152
Examiner's Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material

Serial Number: 08/752,973 Page 2

Art Unit: 1807

1. The following is an examiner's statement of reasons for allowance: Higuchi et al. teach continuous, real-time monitoring of PCR amplification reactions using a fiber optic, but do not teach or suggest methods or devices wherein a first fluorescent signal whose intensity is proportional to the concentration of the amplification reaction product, and a second fluorescent signal whose intensity is proportional to the volume of the sample, are measured during the reactions. Lee et al. teach a non real-time PCR method using such a first and second fluorescent signal. Krauth discloses enzyme immunoassays using such a first and second fluorescent signal, and determining the ratio of the two signals. No specific motivation has been found in the prior art to apply the dual fluorescent signal means of Lee et al. or Krauth in the real-time PCR assay of Higuchi, and no suggestion has been found in the prior art that doing so would correct for system-based variations occurring in real-time PCR independent of the variations encountered in the prior art assays.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Kenneth Horlick whose telephone number is (703) 308-3905. The examiner can normally be reached on Monday-Thursday from 6:30 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, W. Gary Jones, can be reached at (703) 308-1152.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

3. Papers related to this application may be submitted to Group 1800 by facsimile transmission. Papers should be faxed to Group 1800 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CM1 Fax Center numbers for Group 1800 are (703) 305-3014 and 305-4227.

KENNETH R. HORLICK PRIMARY EXAMINER GROUP 1800

92lmth R. Halns, Ph.D.